



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 11, 2021

Nancy Huebl  
Senior Registration Specialist  
Central Garden & Pet Company  
1501 E. Woodfield Rd  
Suite 200W  
Schaumburg, IL 60173

Subject: Notification per PRN 98-10 – Revised text and added alternate brand name  
Product Name: RF2296 LH EC  
EPA Registration Number: 89459-119  
Application Date: April 2, 2021  
Decision Number: 575977

Dear Ms. Huebl:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The text revisions have been approved and the alternate brand name Gentrol® Complete EC<sub>3</sub> has been added to the product record.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact please contact Elizabeth Andrews at 703-347-8770 or by email at [Andrews.Elizabeth@epa.gov](mailto:Andrews.Elizabeth@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "J. Herrick".

Jacquelyn Herrick, Product Manager 03  
Invertebrate & Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

**NOTIFICATION**

89459-119

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

06/11/2021

[ ] optional

**RF2296 LH EC**

Alternate brand name: **Gentrol® Complete EC<sub>3</sub>**

[A broad spectrum insecticide] [that] Controls [Kills]: Ants (excluding fire ants, pharaoh ants, and harvester ants), [Carpenter Ants,] [German] Cockroaches, Bed bugs, Pantry [Stored Product] pests, Crickets, Flies (excluding biting flies, house flies, and lesser house flies), [Drain Flies,] [Fruit Flies,] Spiders (excluding black widow and brown recluse spiders), and other listed flying and crawling insects  
Multi-rate [pest severity][pest pressure] formulation  
For Use in Homes and Apartment Buildings, and the Food and Non-Food/Feed Areas of Hotels, Restaurants, Stores, Warehouses, Office Buildings, Schools, Nursing Homes, Hospitals, Industrial Buildings, Vessels, Rail Cars, Trucks, Trailers, Food Handling Establishments, and Food Servicing Areas  
[For] Use in Food [/Non-Food] [Areas of Food] Handling Establishments  
Indoor [pest] treatments  
Kills German cockroaches, ants (excluding fire ants, pharaoh ants, and harvester ants) and carpenter ants  
Kills stored product pests  
Kills German cockroaches  
Low Odor  
Contains an adulticide and IGR [Insect Growth Regulator]  
Refer to the label for additional use sites and pests controlled  
Combination of Insecticide [Adulticide] and Insect Growth Regulator  
IGR controls roaches for 3-4 months  
Breaks the Life Cycles of [Cockroaches], [Drain Flies,] [Fruit Flies,] [and] [Pantry][Stored Product pests][listed pests]

**ACTIVE INGREDIENTS:**

Lambda-cyhalothrin..... 1.5%  
S-Hydroprene ..... 1.5%

**OTHER INGREDIENTS:**..... 97.0%

**TOTAL:** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN  
WARNING**

See additional PRECAUTIONARY STATEMENTS and Directions for Use in booklet.  
Si usted no entiende la etiqueta, busque a alguien para que la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

EPA Reg. No. 89459-119  
EPA Est. No.

**Country of origin USA**  
Net Contents:

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
WARNING/AVISO**

May be fatal if swallowed. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes skin, or clothing. Wear protective eyewear, goggles or safety glasses. Wear long-sleeved shirt, long pants, shoes, socks and chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride ≥ 14 mils or viton ≥ 14 mils . Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet.. Remove and wash contaminated clothing before reuse.

**User Safety Requirements:** Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product’s concentrate. Do not reuse them.

**Personal Protective Equipment (PPE)**

Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeved shirt
- Long pants
- Shoes and socks.
- Chemical resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride ≥ 14 mils or viton ≥ 14 mils

**User Safety Requirements**

~~Follow manufacturers instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.~~

<b>FIRST AID</b>	
Call a poison control center or doctor immediately for treatment advice.	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-347-8272 for emergency medical treatment information.	

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

## ENVIRONMENTAL HAZARDS

This product is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and run-off may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. This product may contaminate water through run-off. This product has a potential for run-off for several months or more after application. Poorly draining soils and soils with shallow water tables are prone to produce run-off that contains this product. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. See Directions for Use for additional precautions and requirements.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**READ THE ENTIRE LABEL PRIOR TO USE. USE STRICTLY IN ACCORDANCE WITH ALL USE RESTRICTIONS AND DIRECTIONS.**

**GENERAL INFORMATION:** RF2296 LH EC kills ants (excluding fire ants, pharaoh ants, and harvester ants), [carpenter ants,] [German] cockroaches, bed bugs, pantry [stored product] pests (Indian meal moths, rice moths, tobacco moths, red flour beetles, confused flour beetles, lesser grain borers, merchant grain beetles, saw-toothed grain beetles, warehouse beetles, cigarette beetles, and Dermestid beetles), carpet beetles, crickets, flies (excluding biting flies, house flies, and lesser house flies), [drain flies,] [fruit flies,] earwigs, firebrats, flour beetles, pillbugs, silverfish, sowbugs, and spiders (excluding black widow and brown recluse spiders), in buildings and structures and on modes of transport. Permitted areas of use: Inside homes, apartment buildings, private residences, schools, stores, and the food and non-food/feed areas of restaurants, food servicing areas, food handling and manufacturing establishments, hotels, motels, office buildings, stores, warehouses, nursing homes, hospitals, grocery stores, industrial buildings, laboratories, mausoleums, and on vessels, rail cars, buses, trucks, trailers, and recreational vehicles. Do not apply in aircraft cabins.

RF2296 LH EC contains a combination of an insecticide [adulticide] and IGR for kill of listed adult insects and residual control against future generations of listed pests. RF2296 LH EC contains GENTROL® Insect Growth Regulator (IGR). The IGR disrupts the normal development of immature German cockroaches, bed bugs, drain flies, fruit flies, and stored product pests (Indian meal moths, rice moths, tobacco moths, red flour beetles, confused flour beetles, lesser grain borers, merchant grain beetles, saw-toothed grain beetles, warehouse beetles, cigarette beetles, and Dermestid beetles). German cockroaches and bed bugs exposed to the IGR will become adults incapable of reproducing. RF2296 LH EC also disrupts the normal life cycle of drain flies, fruit flies, and stored product pests; thus, killing these insects during the pupal stage. In both cases, the cycle of infestation ends.

This product is for use as a general surface (non-food/non-feed areas), crack-and-crevice, or spot treatment in buildings and structures. Areas of use: industrial buildings, houses, closets, furniture, apartment buildings, laboratories, buses, stores, warehouses, vessels, railcars, trucks, trailers, aircraft (cargo and other non-cabin areas only), schools, nursing homes, hospitals, mausoleums, restaurants, hotels, food granaries, food grain mills and food manufacturing, processing, and servicing establishments.

Non-food/non-feed areas of food/feed handling establishments include floor drains (to sewers), offices, locker rooms, boiler rooms, closets, and storage (after canning or bottling).

This product can be reapplied at 21-day intervals if necessary.

**Mixing Instructions**

Dilute this product with water for application using hand-held or power-operated application equipment as a coarse spray for crack-and-crevice or spot and general surface (non-food/non-feed areas only) treatments. Application equipment that delivers low volume treatments, such as the Micro-Injector® or Actisol® applicator, may also be used to make crack-and-crevice or spot and general surface treatments. Fill applicator tank with the desired volume of water and add this product. Close and shake before use in order to ensure proper mixing. Shake or reagitator applicator tank before use if application is interrupted. Mix only amount of treatment volume as required. This product may be applied by using a paint brush or other porous applicator attached to a handle as a general surface treatment.

**Tank Mixing**

This product may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, add this product last. Fill tank to desired volume and continue to agitate while making applications.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**Foam Applications**

This product may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants or other arthropods harboring in walls or in other void areas.

**RATES FOR PESTS (HAND APPLICATION EQUIPMENT)**

Pests	Dilution Rate (Concentration of AI)	Specific Use Directions
Ants <sup>1</sup> Bed Bugs Boxelder Bugs Carpet Beetles <sup>2</sup> Cigarette Beetles <sup>2</sup> Cockroaches, German <sup>3</sup> Confused Flour Beetles <sup>2</sup> Crickets <sup>4</sup> Earwigs Firebrats Flies <sup>5,7</sup> Lesser Grain Borers Millipedes Pillbugs Red Flour Beetles Rice Weevils Saw-toothed Grain Beetles <sup>2</sup> Silverfish Sowbugs Spiders <sup>4</sup> Stink Bugs	1.3 fl oz (38 mL) to 5.2 fl oz (154 mL) per gallon of water  (0.015% - 0.06% AI)	<p><b>Ants:</b> Apply to any trails around doors and windows and other places where ants may be found. Locate and treat nests. Where ants are trailing inside, apply as a residual surface treatment to active areas including baseboards, corners, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices. When combining baits and residual surface insecticides, apply surface insecticides in cracks and crevices, along baseboards, and infested surfaces and outside barrier treatments. Use baits in other areas that are untreated by residual insecticides.</p> <p><b>Bed Bugs:</b> Clean floors and surfaces by vacuuming. Apply as a coarse, low-pressure spray to harborage areas including crevices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to bed springs and bed frames. Do not apply to furniture surfaces or mattresses where people will be laying or sitting. Do not treat infested bedding - instead remove and place in sealed plastic bags, and take for laundering and dry at high temperatures.</p> <p><b>Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, Spiders and Stink Bugs:</b> Apply as a coarse, low pressure spray to areas where these pests hide, including baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.</p> <p><b>Flies:</b> Apply directly to walls, ceilings, window screens, and other resting areas as a residual surface treatment. May be used inside residential buildings.</p> <p><b>Pantry Pests</b> (i.e., Carpet Beetles, Cigarette Beetles, Confused Flour Beetles, Lesser Grain Borers, Red Flour Beetles, Rice Weevils, and Saw-toothed Grain Beetles): Apply to cupboards, shelving, and storage areas. Remove all utensils, uncovered foodstuffs (or any having original package opened), and shelf paper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuffs, or other items. Destroy any foodstuffs accidentally contaminated with treatment solution.</p> <p><b>Boxelder Bugs, Millipedes, Pillbugs, and Sowbugs:</b> Apply around doors and windows and other places where these pests may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply treatments to prevent infestation as described below.</p> <p><b>Cluster Flies:</b> Apply in late summer or early fall before flies are observed alighting on surfaces. In winter and spring when flies become active and are emerging, interior crack-and-crevice and void treatments can help reduce the infestation, along with ULV or general surface application in infested attics or unoccupied lofts.</p>

<sup>1</sup>Excluding fire ants, pharaoh ants, and harvester ants.  
<sup>2</sup>For control of LIGHT beetle infestations, use 0.030% rate.  
<sup>3</sup>For German cockroaches, the labeled rate for maintenance treatments is 0.015% and for clean-out treatments is 0.030%. For control of severe infestations, use 0.060% rate.  
<sup>4</sup>Excluding brown recluse and black widow spiders. For clean-out/severe infestations, use 0.060% rate.  
<sup>5</sup>Excluding biting flies, House flies and Lesser House Flies.  
<sup>6</sup>For residual control, use 0.060% rate.  
<sup>7</sup>In all states except California, rates for flies may be increased to 0.060% when environmental conditions are severe and/or populations are high

### Application Within Food Handling Establishments

For places other than private residences in which exposed food is held, processed, prepared, or served including, areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, and enclosed processing systems (mills, dairies, edible oils, syrups), and serving areas: Use as a crack-and-crevice or spot treatment in and around both food and nonfood areas. Apply directly into cracks and crevices, using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Clean food contact surfaces and equipment with an effective cleaning compound and rinse with potable water before using.

Limit individual spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments may not exceed two sq ft. Take extreme care that the product is not introduced into the air. Avoid contamination of food and food processing surfaces.

### Application Within Food Serving Areas

For facilities where foods are served, including dining rooms: Apply as a crack-and-crevice or spot treatment to selective surfaces including baseboards, under elements of construction, and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. Do not apply when facility is in operation or foods are exposed. Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

**NOTE:** Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack-and-crevice treatment is not permitted. Use of application equipment such as the Micro-Injector® or Actisol® applicator in food areas should be limited to crack-and-crevice treatment only.

Amount of concentrate is dependent upon pest species (see pest table and comments), infestation levels, and service interval desired.

### Rate Table

Pest Severity	Application Rate: Fl oz (mL) of RF2296 LH EC	Gallons of Water <sup>1</sup>	Area of Coverage (sq ft)
Severe	5.2 fl oz (154 mL)	1 gallons	800-1600 sq ft
Clean-Out	2.6 fl oz (77 mL)	1 gallons	800-1600 sq ft
Maintenance	1.3 fl oz (38 mL)	1 gallons	800-1600 sq ft

<sup>1</sup>Application volume for applications may be greater than 5 gallons/800-1600 sq ft if required.

**LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES.**

## RESTRICTIONS

- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- DO NOT apply to institutions (including libraries, sports facilities, etc.,) in the immediate area when occupants are present.
- DO NOT apply to classrooms when in use.
- DO NOT apply this product to stored raw agricultural commodities used for food or feed.
- DO NOT allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in structures being treated.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**STORAGE AND SPILL PROCEDURES:** Store upright at room temperature. Keep container closed when not in use. Do not store near food or feed. Avoid exposure to extreme temperatures. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

**CONTAINER DISPOSAL: For Containers equal to or less than 5 gallons:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available, then dispose of container in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**For Containers greater than 5 gallons:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available, then dispose of container in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**For bulk containers: [(Refillable Container):** Refill this container with pesticides only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.] To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Central Garden & Pet Company or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Central Garden & Pet Company and Seller harmless for any claims relating to such factors.

Central Garden & Pet Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Central Garden & Pet Company, and Buyer and User assume the risk of any such use. **CENTRAL GARDEN & PET COMPANY MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the fullest extent permitted by law Central Garden & Pet Company or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CENTRAL GARDEN & PET COMPANY AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CENTRAL GARDEN & PET COMPANY OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Central Garden & Pet Company and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Central Garden & Pet Company.

Micro-Injector® is a registered trademark of BASF Corporation

### **Manufactured for:**

Central Garden & Pet Company  
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